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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/778,367	02/07/2001	Bruce Kreikemeier		6849		
31083	7590 11/28/2003		EXAM	EXAMINER		
THOMTE, M	IAZOUR & NIEBER	BARNES, C	BARNES, CRYSTAL J			
2120 S. 72ND	STREET, SUITE 1111					
OMAHA, NE		ART UNIT	PAPER NUMBER			
,		•	2121	. ()		

DATE MAILED: 11/28/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Applicatio	n No.	Applicant(s)	ζ.			
Office Action Summary		09/778,36	7	KREIKEMEIER ET AL.				
		Examiner		Art Unit				
		Crystal J.		2121				
Period fo	The MAILING DATE of this communication	on appears on the	cover sheet with the c	orrespondenc ac	ddress			
THE I - External after - If the - If NC - Failur - Any I	ORTENED STATUTORY PERIOD FOR F MAILING DATE OF THIS COMMUNICAT nsions of time may be available under the provisions of 37 of SIX (6) MONTHS from the mailing date of this communicate period for reply specified above is less than thirty (30) days of period for reply is specified above, the maximum statutory re to reply within the set or extended period for reply will, by reply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	TON. CFR 1.136(a). In no eve tion. s, a reply within the statu period will apply and will y statute, cause the appli	nt, however, may a reply be tin tory minimum of thirty (30) day expire SIX (6) MONTHS from cation to become ABANDONE	nely filed s will be considered time the mailing date of this of D (35 U.S.C. § 133).				
1)⊠	Responsive to communication(s) filed on	17 November 20	<u>003</u> .					
2a) <u></u> ☐	This action is FINAL . 2b)⊠	This action is no	n-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	ion of Claims							
•	Claim(s) <u>1-4</u> is/are pending in the applica		scidoration					
	4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed.							
	6) Claim(s) 1-4 is/are rejected.							
	r)							
·	Claim(s) are subject to restriction	and/or election re	quirement.					
Ū	ion Papers							
9)[The specification is objected to by the Ex	aminer.						
10)⊠	The drawing(s) filed on <u>07 February 2001</u>	<u>/</u> is/are: a)⊠ acc	epted or b)⊡ objecte	d to by the Exami	iner.			
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority ι	under 35 U.S.C. §§ 119 and 120							
* § 13)	Acknowledgment is made of a claim for f All b) Some * c) None of: 1. Certified copies of the priority docu 2. Certified copies of the priority docu 3. Copies of the certified copies of the application from the International E see the attached detailed Office action for Acknowledgment is made of a claim for do ince a specific reference was included in to 7 CFR 1.78.) The translation of the foreign language	uments have beer uments have beer e priority docume Bureau (PCT Rule a list of the certiformestic priority unthe first sentence	n received. In received in Application received in Applications in the second received in the second received in the specification of the specification or second received in the specification received in the specific	on No ed in this National ed. e) (to a provisional in an Application	al application)			
	Acknowledgment is made of a claim for do	•			a specific			
reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.								
Attachmen			_					
2) Notic	e of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-9- mation Disclosure Statement(s) (PTO-1449) Paper I		4) Interview Summary 5) Notice of Informal P 6) Other: .					

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DETAILED ACTION

Response to Arguments

- 1. Applicant's arguments, see Reconsideration (paper no. 7) pages 2-4, filed 17 November 2003, with respect to claims 1-4 rejected under 35 USC 102(a) as being anticipated by USPN 6,600,971 B1 to Smith et al. have been considered but are moot in view of the new ground(s) of rejection.
- 2. Applicant's arguments, see Reconsideration (paper no. 7) pages 5-6, filed 17 November 2003, with respect to claims 1-4 rejected under 35 USC 102(b) as being anticipated by USPN 4,626,984 to Unruh et al. have been fully considered and are persuasive. The rejection of claims 1-4 under 35 USC 102(b) has been withdrawn.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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4. Claims 1-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over USPN 6,600,971 B1 to Smith et al. in view of USPN 6,173,727 B1 to Davey.

As per claim 1, the Smith et al. reference discloses in combination with mechanized irrigation components and ancillary equipment therefore for irrigating a field comprising a wireless RUI (see figure 3 and column 6 lines 20-24, "remote device 25") comprising a handheld display and keypad for (a) reading the status (see column 6 lines 1-3, "monitor") of irrigation components (see column 5 lines 47-51, "sprinkler valves 17") and ancillary equipment (see column 5 lines 52-56, "various sensors 21") and (b) controlling (see column 6 lines 1-3, "operate") the irrigation components "sprinkler valves 17" and ancillary equipment "various sensors 21". Also see column 7 claim 3.

The Smith et al. reference does not expressly disclose a wireless RUI comprising a handheld display and keypad.

The Davey reference discloses

(see column 5 lines 37-40, "The remote communication means 124 ... remote control of actuation of the various sprinkler stations.")

(see column 6 lines 19-25, "By using the remote control means 124, the user is able to actuate the valve ...")

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(see column 7 lines 11-15, "The user presses a touch key ... ")

(see column 9 lines 12-18, "The remote control means 124b ... touch pad 234 ... touch keys 238.")

(see column 9 lines 44-47, "... a display screen 250 ...")

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to modify the hand held unit taught by the Smith et al. reference with the remote control means taught by the Davey reference to illustrate the display and keypad.

One of ordinary skill in the art would have been motivated to illustrate the display and keypad necessary to assume control from the central computer to maintain the capability of monitoring and operating the entire system.

As per claim 2, the Smith et al. reference discloses said wireless RUI (see figure 3 and column 6 lines 20-24, "remote device 25") has the capability of reading the status (see column 6 lines 1-3, "monitor") of the irrigation components (see column 5 lines 47-51, "sprinkler valves 17") and ancillary equipment (see column 5 lines 52-56, "various sensors 21") and controlling (see column 6 lines 1-3, "operate") the same from any location (see column 5 lines 4-16 "node") in the field "network".

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As per claim 3, the rejection of claim 1 is incorporated and further claim 3 contains limitations recited in claim 1; therefore claim 3 is rejected under the same rationale as claim 1.

As per claim 4, the rejection of claim 1 is incorporated and further claim 4 contains limitations recited in claim 1; therefore claim 4 is rejected under the same rationale as claim 1.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The following patents are cited to further show the state of the art with respect to remote monitoring and control of irrigation systems in general:

USPN 4,244,022 to Kendall

USPN 6,337,971 B1 to Abts

USPN 6,633,786 B1 to Majors et al.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Crystal J. Barnes whose telephone number is

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703.306.5448. The examiner can normally be reached on Monday-Friday alternate Mondays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anil Khatri can be reached on 703.305.0282. The fax phone number for the organization where this application or proceeding is assigned is 703.872.9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703.305.3900.

cjb

November 24, 2003

ANIĽ KHATRI

SUPERVISORY PATENT EXAMINER